SPEC CFP95rate Results

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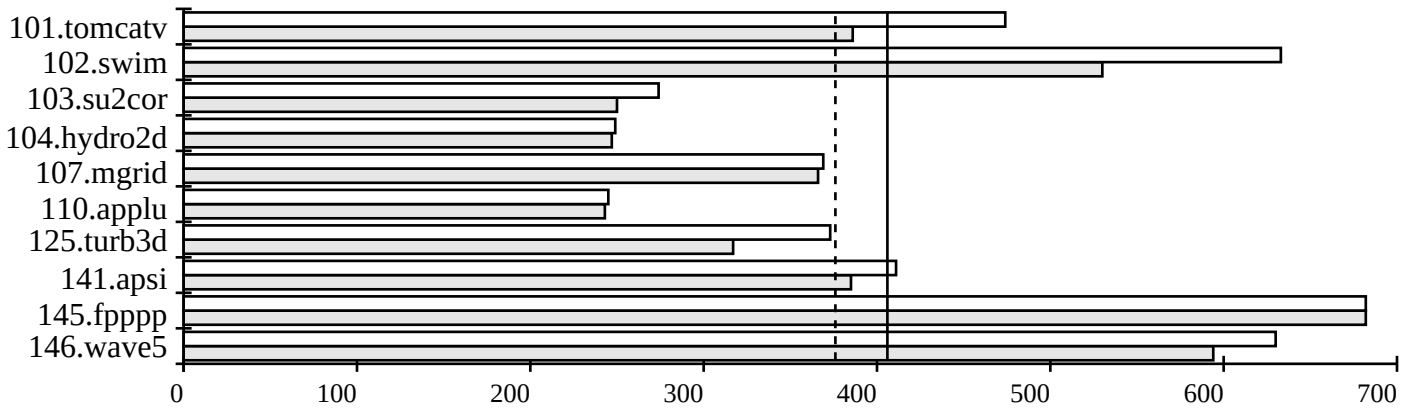
SGI Origin2100: 2X 250MHz R10k

SPECfp_rate95 = 406

SPECfp_rate_base95 = 376

SPEC license # 04 | Tested By: SGI | Test Date: Jul-99 | Hardware Avail: Aug-99 | Software Avail: Jul-99



Hardware/Software Configuration for:
Origin2100: 2X 250MHz R10k

Hardware

Model Name:	Origin2100: 2X 250MHz R10k
CPU:	250 MHz MIPS R10000 Processor Chip Revision: 3.4
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	4MB (I+D)
Other Cache:	None
Memory:	512MB
Disk Subsystem:	1 SCSI 4.3GB
Other Hardware:	none

Software

Operating System:	IRIX64 6.5.5
Compiler:	MIPSpro Fortran 77 and 90 7.3
	IRIX Development Foundation 1.2
File System:	XFS
System State:	Multi-User

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	2	173	386	2	141	474
102.swim	2	292	530	2	245	633
103.su2cor	2	101	250	2	92	274
104.hydro2d	2	175	247	2	173	249
107.mgrid	2	123	366	2	122	369
110.applu	2	163	243	2	162	245
125.turb3d	2	233	317	2	198	373
141.apsi	2	98.2	385	2	92	411
145.fpppp	2	253	682	2	253	682
146.wave5	2	90.8	594	2	86	630
SPECfp_rate_base95 (G. Mean)			376			
SPECfp_rate95 (G. Mean)						406

Notes/Tuning Information

```
Base Flags: f90 -Ofast=ip27 -LNO:fusion=2 FEEDBACK
FEEDBACK:
.   PASS1 = -fb_create /tmp/FBDIR/$(EXENAME)
.   PASS2 = -fb_opt /tmp/FBDIR/$(EXENAME)
Peak Flags:
tomcatv: f90 -Ofast=ip27 -LNO:prefetch_ahead=1:blocking=off:ou_max=2:local_pad_size=1
swim:    f77 -Ofast=ip27 -LNO:fusion=2:prefetch_ahead=1 -IPA:inline=off:pad=off -OPT:ieee_arith=3:ro=3 -bigp_off
su2cor:  f90 -O3 -n32 -mips4 -TARG:platform=ip27 -TENV:X=3 -LNO:prefetch=0:fusion=2:local_pad_size=0 \
.            -OPT:ro=3:ieee_ar=3:unroll_times_max=2:unroll_size=0:unroll_analysis=off
hydro2d: f90 -Ofast=ip27 -LNO:fusion=2 -TENV:X=4
mgrid:   f90 -Ofast=ip27 -LNO:prefetch_ahead=1
applu    f77 -Ofast=ip27 -LNO:fusion=2:ou_max=5:ou_prod_max=10
turb3d   f77 -Ofast=ip27 -OPT:ieee_arith=3 -IPA:multi_clone=12:node_bloat=200 -LNO:prefetch=0
apsi     f77 -Ofast=ip27 -OPT:div_split -LNO:fusion=2:prefetch=0:blocking=off -bigp_off
fpppp:   f90 -Ofast=ip27 -LNO:fusion=2 FEEDBACK
wave5:   f77 -Ofast=ip27 -LNO:fusion=2 -IPA:common_pad_size=13:maxdepth=2 -OPT:unroll_size=400 -bigp_off
.
Large pages were enabled for base and peak using:
.  systune -i ;  percent_totalmem_1m_pages = 50 ; nlpages_1m = 200
.  setenv PAGESIZE_DATA 1024
```

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-- Prepared By: --